Week No.	Week of...	Lecture reference (Griffiths)	Topic	Problem Set No.	Due 5 PM on...
1	27-Aug	1.1.5, 1.3.2-1.3.6	Vector and tensor transformations, fundamental theorems		
		1.4-1.6	Curvilinear coordinates, Dirac delta function, theory of vector fields		
		2.1-2.2.3	Electrostatic fields, Gauss's law		
2	3-Sep		LABOR DAY		
		2.2.4-2.3	Electrostatic potential and boundary conditions		
		2.4, 2.5.1	Electrostatic work and energy, conductors	1	7-Sep
3	10-Sep	3.1.1-3.1.4	Laplace's and Poisson's equation, simple and relaxation solutions		
		3.1.5, 3.2.1-3.2.2	Uniqueness of solution, method of images		
		3.3.1	Separation of variables in Cartesian coordinates	2	14-Sep
4	17-Sep	3.4.2, 3.4.4	Ideal electric dipole and its field		
		4.1-4.2.1	Forces and torques on electric dipoles; polarization		
		4.3-4.4.1	Gauss's law in dielectrics, **D**, linear dielectrics	3	21-Sep
5	24-Sep	4.4.3-4.4.4	Energy in dielectrics, forces on dielectrics		
		5.1.1-5.1.2	Lorentz force law, particle trajectories in static fields		
		5.1.3	Current, forces on wires, current densities; charge conservation	4	28-Sep
6	1-Oct	5.2, 5.3.1-5.3.2	Biot-Savart law, divergence of **B**		
		5.3.2-5.3.4	Ampere's law and applications, static Maxwell equations		
		5.4.1-5.4.2	Vector potential, magnetostatic boundary conditions	5	5-Oct
7	8-Oct	5.4.3	Ideal magnetic dipole and its field		
		6.1.1-6.1.2, 6.1.4	Forces and torques on magnetic dipoles; magnetization		
		6.3, 6.4.1	Ampere's law in magnetic materials, **H**, linear magnetic media		
8	15-Oct	---	TBA		
	(16-Oct)	---	MIDTERM 1 (covers PS 1-5), in 4 LeConte		
		6.4.2	Ferromagnetism	6	19-Oct
9	22-Oct	7.1	Ohm's law, EMF		
		7.2.1-7.2.2	Faraday's law		
		7.2.3-7.2.4	Energy in magnetic fields, inductance	7	26-Oct
10	29-Oct	7.3.1-7.3.3	Maxwell's equations in free space		
		7.3.5-7.3.6	Maxwell's equations in matter, boundary conditions		
		10.1	Maxwell's equations for potentials; gauge transformations	8	2-Nov
11	5-Nov	8.1.1-8.1.2	Continuity equation, Poynting's theorem		
		9.1.1-9.1.2	Wave equation in one dimension, general solution, sinusoidal waves		
		9.2	EM waves in vacuum, energy and momentum		
12	12-Nov	---	VETERANS DAY		
	(13-Nov)	---	MIDTERM 2 (covers PS 1-8), in 50 Birge		
		9.3.1-9.3.2	EM waves in a linear insulator, reflection at normal incidence		
14	19-Nov	11.1.1-11.1.2	EM fields of an oscillating electric dipole		
		11.1.1-11.1.2	Electric dipole radiation and power	9	20-Nov
	(22-Nov)	---	THANKSGIVING		
13	26-Nov	9.1.4	Polarization and angular momentum of EM waves; how to control		
		9.4.1-9.4.2	EM waves in a conductor, reflection at normal incidence		
		9.5.1, 9.5.3	EM waves in a coaxial cable	10	30-Nov
15	3-Dec	---	Interference and coherence of >1 dipole radiator		
		---	Radiation pattern from >1 dipole and connection to diffraction (Babinet)		
		---	TBA	11	7-Dec
16	10-Dec	---			
	(12-Dec)	---	Final exams begin		
	(12-Dec)	8-11 AM	110A FINAL EXAM (Group 1) (covers PS 1-12)		